

**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER: \_\_\_\_\_**

**IMAGES ARE BEST AVAILABLE COPY.**

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

Please type a plus sign (+) inside this box →

**COPY OF PAPERS  
ORIGINALLY FILED**

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
*(use as many sheets as necessary)*

**COMPLETE IF KNOWN**

Application Number	09/907,008
Confirmation Number	8058
Filing Date	July 16, 2001
First Named Inventor	Kenneth H. Abbott
Group Art Unit	2173
Examiner Name	

Sheet 1 of 4 Attorney Docket No. 294438008USS

**U.S. PATENT DOCUMENTS**

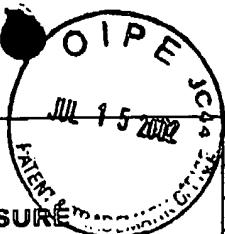
*EXAMINER INITIALS*	Cite No.	U.S. Patent Document NUMBER	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
TH	AA	4,916,441	Gombrich	4/10/90	
	AB	5,032,083	Friedman	7/16/91	
	AC	5,201,034	Matsuura et al.	4/6/93	
	AD	5,208,449	Eastman et al.	5/4/93	
	AE	5,214,757	Mauney et al.	5/25/93	
	AF	5,227,614	Danielson et al.	7/13/93	
	AG	5,335,276	Thompson et al.	8/2/94	
	AH	5,416,730	Lookofsky	5/16/95	
	AI	5,470,233	Fruchterman et al.	11/28/95	
	AJ	5,493,692	Theimer et al.	2/20/96	
	AK	5,506,580	Whiting et al.	4/9/96	
	AL	5,555,376	Theimer et al.	9/10/96	
	AM	5,559,520	Barzegar et al.	9/24/96	
	AN	5,568,645	Morris et al.	10/22/96	
	AO	5,611,050	Theimer et al.	3/11/97	
	AP	5,642,303	Small et al.	6/24/97	
	AQ	5,646,629	Loomis et al.	7/8/97	
	AR	5,719,744	Jenkins et al.	2/17/98	
AS	AS	5,726,660	Purdy et al.	3/10/98	
	AT	5,781,913	Felsenstein et al.	7/14/98	
	AU	5,790,974	Tognazzini	8/4/98	
	AV	5,798,733	Ethridge	8/25/98	
	AW	5,812,865	Theimer et al.	9/22/98	
	AX	5,873,070	Bunte et al.	2/16/99	
	AY	5,878,274	Kono et al.	3/2/99	
	AZ	5,902,347	Backman et al.	5/11/99	
	BA	5,910,799	Carpenter et al.	6/8/99	
	BB	5,938,721	Dussell et al.	8/17/99	
	BC	5,948,041	Abo et al.	9/7/99	

Please type a plus sign (+) inside this box →

COPY OF PAPERS  
ORIGINALLY FILED

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE



Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(use as many sheets as necessary)

**COMPLETE IF KNOWN**

Application Number	09/907,008
Confirmation Number	8058
Filing Date	July 16, 2001
First Named Inventor	Kenneth H. Abbott
Group Art Unit	2173
Examiner Name	

Sheet	2	of	4	Attorney Docket No.	294438008US5	RECEIVED JUL 17 2002 Technology Center 2100
TH	BD	5,959,611	Smailagic et al.	9/28/99		
↓	BE	5,983,335	Dwyer III	11/9/99		
	BF	5,991,687	Hale et al.	11/23/99		
	BG	6,047,301	Bjorklund et al.	4/4/00		
	BH	6,064,943	Clark, Jr., et al.	5/16/00		
	BI	6,108,197	Janik	8/22/00		
↓	BJ	6,294,953	Steeves	9/25/01		

**FOREIGN PATENT DOCUMENTS**

*EXAMINER INITIALS	Cite No.	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Kind Code Number (if known)				
TH	BK	PCT	WO 90/08361	The Scott Fetzer Company	7/26/90		
	BL	PCT	WO 97/03434	Virtual I/O, Inc.	1/30/97		
	BM	EPO	EP 0823 813A2	Kopin Corporation	2/11/98		
	BN	JPO	05260188	Matsushita Electric Ind. Co. Ltd.	10/8/93		
↓	BO	JPO	09091112	Toshiba Corp.	4/4/97		

**OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

*EXAMINER INITIALS	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume/issue number(s), publisher, city and/or country where published.	T
TH	BP	"Affective Understanding: Modeling and Responding to User Affect," <a href="http://www.media.mit.edu/affect/AC_research/understanding.html">http://www.media.mit.edu/affect/AC_research/understanding.html</a> [Accessed 10/2/98]	
	BQ	"Alps GlidePoint," <a href="http://www.alps.com/p.17.html">http://www.alps.com/p.17.html</a> [Accessed 10/2/98]	
	BR	Aoki, Hisashi et al., "Realtime Personal Positioning System for a Wearable Computer," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
	BS	Billinghurst, Mark and Thad Starner, "New Ways to Manage Information," IEEE, pp. 57-64, January 1999.	
	BT	Bowskill, J. et al., "Wearable Location Mediated Telecommunications; A First Step Towards Contextual Communication," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999	
	BU	Dey, Anind K. et al., "The Conference Assistant: Combining Context-Awareness with Wearable Computing," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	
↓	BV	Golding, Andrew and Neal Lesh, "Indoor Navigation Using a Diverse Set of Cheap, Wearable Sensors," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999	

Please type a plus sign (+) inside this box →

COPY OF PAPERS  
ORIGINALLY FILED

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

JUL 15 2002

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(use as many sheets as necessary)

COMPLETE IF KNOWN

Application Number	09/907,008
Confirmation Number	8058
Filing Date	July 16, 2001
First Named Inventor	Kenneth H. Abbott
Group Art Unit	2173
Examiner Name	

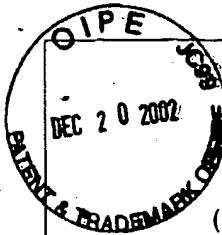
Sheet	3	of	4	Attorney Docket No.	294438008US5
TH	BW	"GyroPoint Technology," <a href="http://www.gyration.com/html/gyropoint.html">http://www.gyration.com/html/gyropoint.html</a> [Accessed 10/2/98]		RECEIVED	
	BX	"Haptics," <a href="http://www.ai.mit.edu/projects/handarm-haptics/haptics.html">http://www.ai.mit.edu/projects/handarm-haptics/haptics.html</a> [Accessed 10/2/98]		JUL 17 2002	Technology Center 2100
	BY	Hull et al., "Towards Situated Computing," Hewlett-Packard Laboratories, HPL-97-66 (1997).			
	BZ	Kirsch, Dana, "The Sentic Mouse: A Tool for Measuring Emotional Valence," <a href="http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html">http://www.media.mit.edu/affect/AC_research/projects/sentic_mouse.html</a> [Accessed 10/2/98]			
	CA	Kortuem, Gerd "When Cyborgs Meet: Building Communities of Cooperating Wearable Agents," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
	CB	Lashkari, Yezdi et al., "Collaborative Interface Agents," Proceedings of AAAI '94 Conference, Seattle, Washington, August 1994.			
	CC	Lehikoinen, Juha et al., "MEX: A Distributed Software Architecture for Wearable Computers," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
	CD	Leonhardi, Alexander et al., "Virtual Information Towers – A Metaphor for Intuitive, Location-Aware Information Access in a Mobile Environment," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
	CE	Lunt, Teresa F. et al., "Knowledge-Based Intrusion Detection," Proceedings of the Annual Artificial Intelligence Systems in Government Conference, IEEE Comp. Soc. Press, Vol. Conf. 4, 1989, pages 102-107.			
	CF	Maes, Pattie, "Agents That Reduce Work and Information Overload," Communications of the ACM, Vol. 37, No. 7, July 1994.			
	CG	Metz, Cade, "MIT: Wearable PCs, Electronic Ink, and Smart Rooms," PC Magazine, pp. 192-193, June 1998.			
	CH	Oakes, Chris, "The Truman Show Realized?", <a href="http://www.wired.com/news/news/technology/story/15745.html">http://www.wired.com/news/news/technology/story/15745.html</a> [Accessed 10/21/98]			
	CI	Picard, R.W. and Healey, J., "Affective Wearables," Personal Technologies vol. 1:231-240, MIT Media Laboratory (1997).			
	CJ	"Research Areas in Affective Computing," <a href="http://www.media.mit.edu/affect/">http://www.media.mit.edu/affect/</a> [Accessed 10/2/98]			
	CK	"Research on Affective Pattern Recognition and Modeling," <a href="http://www.media.mit.edu/affect/AC_research/recognizing.html">http://www.media.mit.edu/affect/AC_research/recognizing.html</a> [Accessed 10/2/98]			

Please type a plus sign (+) inside this box → +

PTO/SB/08A

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<b>COMPLETE IF KNOWN</b>	
Sheet		4	of	4	Attorney Docket No. 294438008US5
TH	CL	"Research on Sensing Human Affect," <a href="http://www.media.mit.edu/affect/AC_research/sensing.html">http://www.media.mit.edu/affect/AC_research/sensing.html</a> [Accessed 10/2/98]			
	CM	Rhodes, Bradley J., "The Wearable Remembrance Agent: A System for Augmented Memory," Proceedings of the First International Symposium on Wearable Computers (ISWC '97), Cambridge, MA, October 13-14, 1997.			
	CN	Rhodes, Bradley, "WIMP Interface Considered Fatal," <a href="http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html">http://rhodes.www.media.mit.edu/people/rhodes/Papers/no-wimp.html</a> 7/23/98			
	CO	Sato, J. et al., "Autonomous Behavior Control of Virtual Actors Based on the AIR Model," Proceedings Computer Animation, June 5, 1997.			
	CP	Schneider, Jay and Jim Suruda, "Modeling Wearable Negotiation in an Opportunistic Task Oriented Domain," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19 1999			
	CQ	Smailagic, Asim et al., "MoCCA: A Mobile Communication and Computing Architecture," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
	CR	"SmartDesk Home Page," <a href="http://vismod.www.media.mit.edu/vismod/demos/smartdesk/">http://vismod.www.media.mit.edu/vismod/demos/smartdesk/</a> [Accessed 10/2/98]			
	CS	"Smart Rooms," <a href="http://vismod.www.media.mit.edu/vismod/demos/smartroom/">http://vismod.www.media.mit.edu/vismod/demos/smartroom/</a> [Accessed 10/2/98]			
	CT	Tan, Hong Z. and Alex Pentland, "Tactual Displays for Wearable Computing," IEEE, Massachusetts Institute of Technology Media Laboratory, pp. 84-88, 1997.			
	CU	"The MIT Wearable Computing Web Page," <a href="http://wearables.www.media.mit.edu/projects/wearables/">http://wearables.www.media.mit.edu/projects/wearables/</a> [Accessed 10/2/98]			
	CV	"Wearable Computer Systems for Affective Computing," <a href="http://www.media.mit.edu/affect/AC_research/wearables.html">http://www.media.mit.edu/affect/AC_research/wearables.html</a> [Accessed 10/2/98]			
↓	CW	Yang, Jie et al., "Smart Sight: A Tourist Assistant System," 3 <sup>rd</sup> International Symposium on Wearable Computers, San Francisco, California, October 18-19, 1999			
EXAMINER <i>Teresa Haner</i>			DATE CONSIDERED 9/28/04		
* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).					



**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Form PTO-1449 (Modified)  
(Use several sheets if necessary)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT				COMPLETE IF KNOWN	
Form PTO-1449 (Modified) (Use several sheets if necessary)				Application Number	09/907,008
				Confirmation Number	8058
				Filing Date	July 16, 2001
				First Named Inventor	Kenneth H. Abbott
				Group Art Unit	2173
				Examiner Name	Unknown
Sheet	1	of	1	Attorney Docket No.	294438008US5

**EXPRESS MAIL NO. EV139297052US**

## **U.S. PATENT DOCUMENTS**

RECEIVED

DEC 30 2002

**Technology Center 2100**

## **FOREIGN PATENT DOCUMENTS**

FOREIGN PATENT DOCUMENTS						
Examiner Initial	Cite No.	Foreign Patent or Application		Name of Patentee or Applicant of Cited Document	Date of Publication or Filing Date of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear
		Office	NUMBER			

#### **OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.	T

EXAMINER

Todays Hair

**DATE CONSIDERED**

9/28/04

\*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).